



Australian Government

Assessment Requirements for AURRTQ002 Inspect and service marine jet drive propulsion systems

Release: 1

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Modification History

Release	Comment
Release 1	New unit of competency.

Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standards defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- inspect and service two different vessels with jet drive propulsion systems.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to inspecting and servicing jet drive propulsion systems, including procedures for identifying hazards and controlling risks associated with working with:
 - exhaust fumes
 - rotating components
 - moving components that have the ability to crush
- environmental requirements, including procedures for trapping, storing and disposing of fluids released from propulsion systems
- identification and function of jet drive propulsion system components, including:
 - centrifugal
 - axial flow
- basic operation of jet drive propulsion systems
- types and applications of lubricants and lubricating fluids for jet drive propulsion systems
- inspection procedures for jet drive propulsion systems, including:
 - oil and fluid leaks
 - ancillary components, including:
 - mountings
 - belts, pulleys and hoses

- service and adjustment procedures for jet drive propulsion systems, including:
 - main bearing lubrication
 - power hydraulic system
 - driveline
 - screens and pick-ups
 - steering system
 - control system with forward, neutral and reverse
- post-service testing procedures for jet drive propulsion systems, including procedures for:
 - running engine to operating temperature and checking cooling system operation
 - checking engine fluid levels
 - checking fuel system for leaks
 - checking for abnormal noises
 - checking gauges and warning devices for operation.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the marine jet drive propulsion systems that they have worked on, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- marine repair workplace or simulated workplace
- workplace instructions
- manufacturer jet drive propulsion system specifications
- two different vessels with jet drive propulsion systems requiring servicing
- tools, equipment and materials appropriate for inspecting and servicing marine jet drive propulsion systems.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

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